

Chatham County Stormwater Permit Application

FOR OFFICE USE ONLY					
Review Fee:					
Permit No.:					
Date Issued:					
Date Paid:					
Check No.:					
Rec'd By:					

DEVELOPMENT NAME:	Chartnut Craal	Cubdivision				
	Chestnut Creek Subdivision					
LOCATION:	Jones Ferry R	oad				
PARCEL ID NUMBER:	1439					
TOTAL ACRES:	49.149 Acres	TOTAL	DWELLING	UNITS (if	applicable):	14
TOTAL Disturbed Area:	5.52 Acres	% Built Upon Area:	11.23%	TOTAL E	Built Upon Area:	65713 SF.
			*			1.51 Acres
Section B. APPLI	CANT INFORMATI	ON		ne e		
OWNER (Owner or Deve	eloper)					
Owner:	Kirk Metty			Phone:	919-235-	2077
Company:	Tuscan Group,	Inc		Fax:		
Address:	661 Cedar Gro	ove Road				
				7:	07040	
City, State:	Pittsboro, North	n Carolina		Zip:	27312	
			VALUE & COMM. 14. 14. 14.	Zip:	2/3/2	
City, State:	Pittsboro, North			Zip:	21312	
City, State: Email Address:	tuscangroupinc(ne plan)	Zip:	2/3/2	
City, State: Email Address:	tuscangroupinc(@gmail.com	ne plan)	Phone:	919-851-16	642
City, State: Email Address: ONSULTANT (Person to	tuscangroupinc(contact regarding que Samir Bahho	@gmail.com	JF.			642
City, State: Email Address: ONSULTANT (Person to Contact Name:	tuscangroupinc(contact regarding que Samir Bahho	@gmail.com estions or revisions to th ural Engineering S	JF.	Phone:		642
City, State: Email Address: ONSULTANT (Person to Contact Name: Company:	tuscangroupinco contact regarding que Samir Bahho Civil and Struct	@gmail.com estions or revisions to th ural Engineering S ive,	JF.	Phone:		642

Section E. APPLICANT'S CERTIFICATION

Designer Certification:

I hereby certify that the design-related information submitted with this application for permit coverage was prepared under my direction or supervision and that the information is, in the exercise of my reasonable professional judgment, true, accurate and complete. I also hereby certify that the stormwater collection, treatment and control system design submitted with this application complies with all requirements of the County's Stormwater Ordinance.

Civil Engineer

Samir Bahho, PE

Type or Print Name

Owner Certification:

I hereby certify that I have read this application and agree to abide by the terms of any Stormwater Permit issued by

Chatham County

Original Signature of Owner or Authorized Agent

KIRK T. METT

ALL ITEMS ON THIS APPLICATION MUST BE ADDRESSED PRIOR TO SUBMITTAL. ALL INCOMPLETE SUBMITTALS WILL BE RETURNED.

Section C. REQUIRED ITEMS CHECKLIST

The following checklists outline submittal requirements. Initial in the space provided to indicate the following submittal requirements have been met and supporting documentation is attached.

General Requir		5.5
✓	1.	Sheets shall be no larger than 36" x 24" plan and profile paper.
✓	<i>-</i> 2.	Minimum text size shall be 1/8".
• 🗸	3.	Scale on plan view shall be no smaller than $1'' = 50'$; scale on profile view shall be no smaller than $1'' = 50'$ horizontally and $1'' = 5'$ vertically using a grid showing $1'$ intervals.
✓	4.	All drawings to be in North Carolina State Plane coordinate system.
V	5.	Cover sheet shall have a vicinity map at a scale no smaller than 1" = 200'.
v	6.	Provide a legend indicating existing and proposed lines, features and symbols.
V	7.	Cover sheet shall include all general notes, owner's name, telephone number, and mailing address.
i	8.	All elevations shall be given in relation to mean sea level; elevations in profile view shall be labeled in 10' intervals on the heavy lines (Ex. 350, 360).
V	9.	Benchmark elevations and locations shall be shown on plan view.
v	10.	Plan views shall have a north arrow on each drawing.
V	11.	Each drawing shall have the following information in the title block: Street or project title, limits, horizontal and vertical scales, original date, revisions date, drawing number, checked by and drawn by. Recommended placement is lower right-hand corner.
V	12.	All drawings sealed, signed and dated by a NC Professional Engineer or Landscape Architect.
/	13.	A signed and sealed statement on the plans certifying that the design of all stormwater management facilities and practices will control and treat the runoff from the from the 1 year-1hour storm over the total drainage area, that the designs and plans are sufficient to comply with applicable standards and policies found in the NC DENR Stormwater BMP Design Manual, and that the designs and plans ensure compliance with the County's Stormwater Ordinance.
/	14.	Plan view shall show all actual street names. State road numbers shall be shown if applicable. Plan view should also indicate whether street is asphalt, concrete, gravel or dirt. Proposed street & Right-of-way widths will be dimensioned back-to-back and labeled in plan view.
V	15.	Plan view shall show proposed and existing curb and gutter, pavement, storm sewers, drainage structures, driveway pipes, water mains, sanitary sewer mains, etc. All available elevations shall be shown on the profile view. Direction of flow shall be shown on plan view for all sanitary sewers and storm drains. Materials and pipe sizes shall be labeled.
V	16.	Existing utility lines shall be shown and labeled on plan view and indicated in the legend.
7	17.	Plans shall show final proposed locations and dimensions of all water, storm drain, and sanitary sewer lines, devices to be installed on the system, catch basins, culverts, ditches, including grades, pipes sizes, elevations, assumptions, calculations, invert elevations for all inlets and manholes and profiles of sanitary sewer lines.

V	18.	All existing and proposed water, storm drainage and sanitary sewer easements shall applicable sheets.	be shown on al
V	19.	Number of dwelling units.	
V	20.	Existing and proposed topographic lines (minimum 2-foot intervals).	
· / ·	21.	Streams, ponds, wetlands, etc. on the project site and within 50 feet of the property	lines.
· ·	22.	Location of floodplain and floodway (if applicable).	
· ·	23.	Location of drainage ways and easements.	
Site Drainage I	eature	es:	
. ~	24.	Existing and planned drainage patterns (include off-site areas that drain through pro	ject).
v	25.	Any existing stormwater control systems.	
~	26.	Sub-watershed delineation showing drainage areas.	
ı	27.	Show extent and number of disturbed acres.	
ı	28.	Proposed built-upon areas.	
v	29.	Soil information: type, special characteristics.	
~	30.	Name and classification of receiving water course.	
Permanent Sto	rmwat	er Control Measures:	
v	31.	Type of BMP (wet pond, rain-garden, etc).	
v	32.	Designer's certification.	
V	33.	Narrative description of proposed stormwater system (where runoff originates (e.g. parking lots etc.), its conveyance within the project, its treatment, and its conveyance project to the receiving water body).	e from the
v	34.	Profile along the centerline of the principal spillway/outfall pipe extending below th outfall or to the downstream structure.	e protected
~	35.	Elevations of the "water quality" surface, temporary storage water surface, and the storms.	10 and 100 year
V	36.	Stage-storage table for each BMP.	
V	37.	If BMP is to be used to treat construction site runoff, provide steps necessary to rest original design condition.	ore BMP to
V	38.	All necessary construction specifications.	
V	39.	Sequence of construction.	
v	40.	Individual drainage areas for each stormwater BMP.	
v	41.	Construction drawings and details for permanent measures.	

V	42.	Size and location of culverts.
V	43.	Size and location of subsurface drainage conveyances.
V.	44.	Disclosure of party ultimately responsible for operation and maintenance of the stormwater system
Stormwater C	alculati	ons:
/ -	,45.	Narrative description of calculations (methods, variables, assumptions, etc.) and results. Include the BMP Supplement Forms from the North Carolina Department of the Environment and Natural Resources-Division of Water Quality's Manual of Stormwater Best Management Practices (NCDENI BMP Manual) for each BMP.
.~	46.	Stormwater BMPs designed in accordance with the NCDENR BMP Manual.
V	47.	Time of concentration for pre/post development conditions.
ν	48.	Pre-construction and post-construction runoff calculations for each outlet from the site (at peak discharge points).
V	49.	Pre-construction and post-construction design calculations and hydrographs.
V	50.	Design calculations of culverts and storm sewers.
/	51.	Discharge and velocity calculations for open channel and ditch flows (easement & right-of-ways).
υ	52.	Design calcs of cross sections and method of stabilization of existing and planned channels (include temporary linings).
ν	53.	Design calcs and construction details of energy dissipaters below culvert and storm sewer outlets (diameters & apron dimensions).
V	54.	Amount and type of existing and proposed land use.
peration and	Mainte	enance Manual (for each BMP):
L	55.	Narrative description of the purpose and operation of the BMP.
/	56.	Detailed list, description, and procedure of routine maintenance items.
_	57.	Detailed list, description, and procedure of non-routine maintenance items.
1	58.	Maintenance schedule.
1	59.	Steps needed to restore BMP in the event of a failure.
1	60.	Maintenance checklist and inspection form.
1	61.	BMP construction drawings. Replace with record drawings when BMP is complete.
V	62.	Latitude and longitude of each stormwater BMP.

Section	D. ATTACHMENTS				
	2 sets of plans		.4-		
	1 set of electronic plans in .pdf format				
	1 set of calculations	**			
	Operation and Maintenance Manual				
	Application Fee				